

# SEQUENCE LISTING

<110> Cahoon, Rebecca  
Caimi, Perry  
Odell, Joan  
Sakai, Hajime  
Zhu, Qun

<120> PC4 Transcriptional Coactivators

<130> BB-1194

<140> 09/743,336

<141> 2001-01-05

<150> 60/093,687

<151> 1998-07-22

<160> 20

<170> Microsoft Office 97

<210> 1

<211> 649

<212> DNA

<213> Zea mays

<400> 1

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cggatgacgt aacttctcac tattatcttg tagccaaaaa cagcttgta ggattgcaga 600
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<210> 2

<211> 103

<212> PRT

<213> Zea mays

<400> 2

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  20            25            30

Ala Glu Asp Gly Thr Val Val Ala Glu Ile Ser Lys Asn Lys Lys Val
  35            40            45

Ser Val Arg Ser Trp Lys Gly Arg Val Phe Val Asp Leu Arg Glu Phe
  50            55            60

Tyr Phe Lys Asp Gly Lys Thr Leu Pro Thr Arg Lys Gly Ile Ser Leu
  65            70            75            80
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Gln Leu Asp Gln Trp Lys Ile Leu Lys Asp Asn Ile Lys Ala Ile Asn  
85 90 95

Glu Ala Ile Glu Glu Asn Thr  
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<210> 3  
<211> 632  
<212> DNA  
<213> Oryza sativa

<400> 3  
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gggccctccg agagcgccga cgacgatatc gtcgtcgccc agatatacga gaacaggagg 180  
gtggcggtgc ggacctggaa cggcaagggt gtcgtcgaca tccgcgagtt ctacgagaag 240  
gacggcaaga cctcccccgg ccgcaaagggt atacagctcc caatggatca gtggaagata 300  
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ttggtcatgc gcggaaaatg tggccttggtc tgggtattgtg ccaaagaagc agctatgtgc 540  
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<211> 101  
<212> PRT  
<213> Oryza sativa

<400> 4  
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Ala Lys Arg Arg Ala Ala Gly Asp Asp Gly Pro Ser Glu Ser Ala Asp  
20 25 30

Asp Asp Ile Val Val Ala Gln Ile Ser Lys Asn Arg Arg Val Ala Val  
35 40 45

Arg Thr Trp Asn Gly Lys Val Val Val Asp Ile Arg Glu Phe Tyr Glu  
50 55 60

Lys Asp Gly Lys Thr Leu Pro Gly Arg Lys Gly Ile Gln Leu Pro Met  
65 70 75 80

Asp Gln Trp Lys Ile Leu Arg Asp Asn Ile Lys Ala Ile Asp Glu Ala  
85 90 95

Ile Lys Glu Asn Ala  
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<210> 5  
<211> 672  
<212> DNA  
<213> Glycine max

<400> 5  
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aagaaggatt ccgatgacga tcccgactct attaccgttt gcgagatttc gaagaacagg 180  
agggttgccg tgaggaactg gaaaggcagc attatgggtg acattcgcca gttttacgtc 240

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aaagatggca agcaattgcc tggcagaaaa ggtatctctt tgaccatgga tcagtgggaat 300
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ggcattctag tcaattttat agtttactat ggtagcatgt tatatactct ttttggatta 420
cttaaagtac agttaagggc tacagtattt tgtctaatac aaccctttga gggtgctatt 480
gtaggatttc gattttaacc tctggttgct aatgcatgta aagtgtcctc tattaaatat 540
gctagttggt agttaactat atatactgct accacatcca tggtatttac cctttgtttg 600
gaacagtaaa gattgtggag aaataaaaagg gaaggagaaa ctacaaattt caagaaaaaa 660
aaaaaaaaaa aa
672

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<210> 6
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<212> PRT
<213> Glycine max

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<400> 6
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  1          5          10          15
Asp Ser Glu Gly His Ala Pro Pro Lys Lys Ser Leu Lys Lys Asp Ser
      20          25          30
Asp Asp Asp Pro Asp Ser Ile Thr Val Cys Glu Ile Ser Lys Asn Arg
      35          40          45
Arg Val Ala Val Arg Asn Trp Lys Gly Ser Ile Met Val Asp Ile Arg
      50          55          60
Glu Phe Tyr Val Lys Asp Gly Lys Gln Leu Pro Gly Arg Lys Gly Ile
      65          70          75          80
Ser Leu Thr Met Asp Gln Trp Asn Val Leu Arg Asn His Val Glu Glu
      85          90          95
Ile Asp Lys Ala Ile Asn Glu Asn Ser
      100          105

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<210> 7
<211> 460
<212> DNA
<213> Triticum aestivum

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<222> (313)
<223> n=a,c,g or t

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<220>
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<222> (316)
<223> n=a,c,g or t

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<220>
<221> unsure
<222> (370)
<223> n=a,c,g or t

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<220>
<221> unsure
<222> (423)..(424)
<223> n=a,c,g or t

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<222> (438)  
<223> n=a,c,g or t

<220>  
<221> unsure  
<222> (445)  
<223> n=a,c,g or t

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acggtccctc cgaggaaacc gacgacggca tcgtcggtgc gcagatatcg aagaacaaga 120  
gggtggccgt gaggaactgg aacgggaagg tcatggtcga catgcgcgag ttctacgaaa 180  
aggacggcaa gagcctcccg acccgcaaag gtatatcgct ctcaatggat cagtggaaaa 240  
tactgagggg caacatcgaa gctatagacg aggccatcaa ggagaacact tgatcagaaa 300  
agcggttaag ganatnttac tgggcaaagt gttgtcatt cgctgcttaa agtatgctag 360  
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gtnnctact gttggtcngt gaaangtgac ctaatgcctt 460

<210> 8  
<211> 96  
<212> PRT  
<213> Triticum aestivum

<400> 8  
Phe Gly Gly Gly Gly Gly Arg Gly Gln Pro Pro Ala Lys Arg Gln Ala  
1 5 10 15  
Ala Gly Lys Asp Gly Pro Ser Glu Glu Thr Asp Asp Gly Ile Val Val  
20 25 30  
Ala Gln Ile Ser Lys Asn Lys Arg Val Ala Val Arg Asn Trp Asn Gly  
35 40 45  
Lys Val Met Val Asp Met Arg Glu Phe Tyr Glu Lys Asp Gly Lys Ser  
50 55 60  
Leu Pro Thr Arg Lys Gly Ile Ser Leu Ser Met Asp Gln Trp Lys Ile  
65 70 75 80  
Leu Arg Asp Asn Ile Glu Ala Ile Asp Glu Ala Ile Lys Glu Asn Thr  
85 90 95

<210> 9  
<211> 498  
<212> DNA  
<213> Calendula officinalis

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<222> (254)  
<223> n=a,c,g or t

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<220>  
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<222> (480)  
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<220>  
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<223> n=a,c,g or t

<400> 9

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ccggtgatga ttccggcgaa gatgacggca gcattctcat ctgcgatgtc tccaaaaacc 180
gcagggtttc tgtccgcaac tggcaaggca aggttggtgt tgatatccgc gagttctaca 240
tgaaagacgg caangcaaat gcctgggcaa aaaaggatc tcattgacca tgggccaagt 300
gggaaagaac ttctgtctca tgtggatgaa atccacaagg ntcctggctt agtaanattn 360
aggtaagcaa agttaagtaa gacttangga aggnatgggn gttggacttt tggcgaacta 420
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tggtttggnn tgtttttc 498
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<210> 10

<211> 99

<212> PRT

<213> Calendula officinalis

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<222> (84)

<223> Xaa = ANY AMINO ACID

<220>

<221> UNSURE

<222> (88)

<223> Xaa = ANY AMINO ACID

<400> 10

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Cys Thr Lys Arg Lys Arg Glu Lys Met Ser Phe Lys Arg Gly Lys Gly
  1          5          10          15
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Lys Asp Lys Asp Glu Glu Asp Phe Ile Ser Glu Asn Ala Pro Pro Lys
      20          25          30
```

```
Lys Thr Ser Lys Lys Asp Thr Ser Gly Asp Asp Ser Gly Glu Asp Asp
      35          40          45
```

```
Gly Ser Ile Phe Ile Cys Asp Val Ser Lys Asn Arg Arg Val Ser Val
      50          55          60
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```
Arg Asn Trp Gln Gly Lys Val Val Val Asp Ile Arg Glu Phe Tyr Met
      65          70          75          80
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Lys Asp Gly Xaa Ala Asn Ala Xaa Gly Lys Lys Gly Ile Ser Leu Thr
      85          90          95
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Met Gly Gln

<210> 11

<211> 516

<212> DNA

<213> Vernonia mespilifolia

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<221> unsure

<222> (189)

<223> n=a,c,g or t

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<221> unsure  
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<220>  
<221> unsure  
<222> (235)  
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<220>  
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<223> n=a,c,g or t

<220>  
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<220>  
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<222> (260)  
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<220>  
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<222> (285)  
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<220>  
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<222> (317)  
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<220>  
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<222> (336)  
<223> n=a,c,g or t

<220>  
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<223> n=a,c,g or t

<220>  
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<222> (449)  
<223> n=a,c,g or t

<220>  
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<222> (511)  
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gattccgacg acgaagacga catcttcatt tgtgacgttt ccaaaaaccg gagggtttct 180  
gtcaggaant ggcaagggag ggtctttgtc gatatcogtg ngttttacat gaaanacggc 240  
aannaaatgc ctgncaaaan aggcattctca ttgaccatgg atcantggaa agaactccgt 300  
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agtaagacta gtatcctggtt tttatgttga cagtgggtac ggcaaactctg caattatgta 420  
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tcctttgatg gagcatccgt agattcctca ncctaa 516

<210> 12  
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<212> PRT  
<213> Vernonia mespilifolia

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<223> Xaa = ANY AMINO ACID

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<223> Xaa = ANY AMINO ACID

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<222> (81)..(82)  
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<222> (85)  
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<223> Xaa = ANY AMINO ACID

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20 25 30

Ser Lys Lys Asp Thr Ala Gly Asp Asp Ser Asp Asp Glu Asp Asp Ile  
35 40 45

Phe Ile Cys Asp Val Ser Lys Asn Arg Arg Val Ser Val Arg Xaa Trp  
50 55 60



Gln Gly Arg Val Phe Val Asp Ile Arg Xaa Phe Tyr Met Lys Xaa Gly  
65 70 75 80

Xaa Xaa Met Pro Xaa Lys Xaa Gly Ile Ser Leu Thr Met Asp Xaa Trp  
85 90 95

Lys Glu Leu Arg Ala His Val Asp Glu Xaa Asp Lys Ala Leu Ala  
100 105 110

<210> 13  
<211> 1089  
<212> DNA  
<213> Zea mays

<220>  
<221> unsure  
<222> (313)  
<223> n=a,c,g or t

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gaagaatgtg gaggctacgg tgctggagat cctccggggc tccgatatgg agtccgtgac 180  
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gagcctctta ttttgctgt atcaaataaa aaagcctatt tctgaccctt aacgagggcc 840  
atatatgtgt cttgcaagag ctaagttctg taaaagattt ctacatgtac catgtgtagg 900  
agttaggata gagtgataga cgtactgctg catcacgttc ggaatatttg ctagtaacaa 960  
gtaatctacc attaggtggc ctggattcac atgctatgct atgtgatgat cggggatgtg 1020  
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<210> 14  
<211> 183  
<212> PRT  
<213> Zea mays

<400> 14  
Met Asp Glu Ala Thr Lys Lys Asn Val Glu Ala Thr Val Leu Glu Ile  
1 5 10 15

Leu Arg Gly Ser Asp Met Glu Ser Val Thr Glu Tyr Lys Val Arg Ala  
20 25 30

Ala Ala Ser Asp Arg Leu Gly Ile Asp Leu Ser Ile Pro Asp Arg Lys  
35 40 45

Leu Phe Val Arg Gly Val Val Glu Glu Tyr Leu Leu Ser Leu Ser Ser  
50 55 60

Lys Glu Glu Ala Lys Ala Glu Glu Glu Gly Val Thr Gly Arg Glu Ser  
65 70 75 80

Lys Gly Lys Glu His Glu Glu Glu Asp Glu Glu Asp Asp Asp Glu Glu  
85 90 95

Glu Asp Glu Gly Lys Gly Gly Gly Lys Arg Glu Tyr Asp Asp Gln Gly  
100 105 110

Asp Leu Ile Leu Cys Arg Leu Ser Ser Lys Arg Arg Val Thr Leu Ser  
115 120 125

Glu Phe Lys Gly Arg Ser Leu Val Ser Ile Arg Glu Phe Tyr Val Lys  
130 135 140

Asp Gly Lys Glu Met Pro Ser Ala Lys Gly Ile Ser Met Thr Leu Glu  
145 150 155 160

Gln Trp Glu Ala Phe Cys Asn Ala Val Pro Ala Ile Glu Asp Ala Ile  
165 170 175

Lys Lys Leu Glu Asp Ser Asp  
180

<210> 15

<211> 939

<212> DNA

<213> Zea mays

<400> 15

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gcgaaggcgg cggaggaggg cgacgctggc agggagagca aggacaagga acggaaggaa 180
gatgaggagg aggatgaagg taaggggtggc gggaagagag agtacgacga ccaagggtgac 240
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ggtattagta tgactttgga gcagtgggaa gcattttgca atgctgtacc tgcaatagag 420
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ccgtgtcaaa tgaaaaagcc tgggaagcat ttcgcaatgc tgtatctgca atagatgatg 540
catgaaaaag cttgaagatt cagacagaac tggtttagga gcctcttatt ttgcctgtat 600
caaataaaaa agcctatttc tgacccttaa cgagggccat atatgtgtct tgcaagagct 660
aagttctgta aaagatttct acatgtacca tgtgtaggag ttaggataga gtgatagacg 720
tactgctgca tacagttcgg aatatttgct agtaacaagt aatctaccat taggtggcct 780
ggattcacat gctatgctat gtgatgatcg gggatgtgtc ctagcaatag caagtcatga 840
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<210> 16

<211> 140

<212> PRT

<213> Zea mays

<400> 16

Met Asp Glu Ala Thr Lys Lys Val Glu Ala Thr Val Leu Glu Ile Pro  
1 5 10 15

Arg Gly Ser Asp Met Glu Ser Val Thr Glu Asn Lys Glu Glu Ala Lys  
20 25 30

Ala Ala Glu Gly Asp Ala Gly Arg Glu Ser Lys Asp Lys Glu Arg  
35 40 45

Lys Glu Asp Glu Glu Glu Asp Glu Gly Lys Gly Gly Lys Arg Glu

50

55

60

Tyr Asp Asp Gln Gly Asp Leu Ile Leu Cys Arg Leu Ser Ser Lys Arg  
65 70 75 80

Arg Val Thr Leu Ser Glu Phe Lys Gly Arg Ser Leu Val Ser Ile Arg  
85 90 95

Glu Phe Tyr Val Lys Asp Gly Lys Glu Met Pro Ser Ala Lys Gly Ile  
100 105 110

Ser Met Thr Leu Glu Gln Trp Glu Ala Phe Cys Asn Ala Val Pro Ala  
115 120 125

Ile Glu Asp Ala Ile Lys Lys Leu Glu Asp Ser Asp  
130 135 140

&lt;210&gt; 17

&lt;211&gt; 740

&lt;212&gt; DNA

&lt;213&gt; Glycine max

&lt;400&gt; 17

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gacatggacg aggttactga gtctaagatt cgaaaacagg cctccgaaca ccttggcctc 120  
gacctgtctc agccttattt caaagccttt gtcaaacagg tcgtgaaggc ttttctccaa 180  
gaagaagaac aacgacagaa acaacaacaa caagatgaag atgaagaaga agaactagga 240  
ggagggttcca agggcaagga gtacgatgat gaaggcgatc tcatcatctg caggctttca 300  
gataagagaa ggggtgacgat tcaggatttc agaggggaaaa catttgtctc cattcgggag 360  
tattataaaa aggatggcaa ggaacttcct acttccaaag gaataagttt gacagaagag 420  
cagtggctcag cctttaagaa aaatgtgcct gccatagaaa aagccattaa gaaaatggag 480  
tcaagttgac acatggcttt gcttggtttt ttttggtgaa tatatcctgc accgcaccat 540  
ggtgcctctt tgatattgga ccattttggt aaaggacttg gagtcactgt ttaagtgttt 600  
tgcaacctga gtgcctaaag ccatttcagg aagactaaac tgaatgccag taactttaaa 660  
aactcaatac atttaattct gttaaaaaaa aaaaaaata cttgaggggg cgccgggcca 720  
ggttaaggga ggggggaccg 740

&lt;210&gt; 18

&lt;211&gt; 141

&lt;212&gt; PRT

&lt;213&gt; Glycine max

&lt;400&gt; 18

Met Asp Glu Val Thr Glu Ser Lys Ile Arg Lys Gln Ala Ser Glu His  
1 5 10 15

Leu Gly Leu Asp Leu Ser Gln Pro Tyr Phe Lys Ala Phe Val Lys Gln  
20 25 30

Val Val Lys Ala Phe Leu Gln Glu Glu Gln Arg Gln Lys Gln Gln  
35 40 45

Gln Gln Asp Glu Asp Glu Glu Glu Glu Leu Gly Gly Gly Ser Lys Gly  
50 55 60

Lys Glu Tyr Asp Asp Glu Gly Asp Leu Ile Ile Cys Arg Leu Ser Asp  
65 70 75 80

Lys Arg Arg Val Thr Ile Gln Asp Phe Arg Gly Lys Thr Leu Val Ser  
85 90 95

Ile Arg Glu Tyr Tyr Lys Lys Asp Gly Lys Glu Leu Pro Thr Ser Lys  
100 105 110

Gly Ile Ser Leu Thr Glu Glu Gln Trp Ser Ala Phe Lys Lys Asn Val  
115 120 125

Pro Ala Ile Glu Lys Ala Ile Lys Lys Met Glu Ser Ser  
130 135 140

<210> 19

<211> 83

<212> PRT

<213> Arabidopsis thaliana

<400> 19

Met Ser Ser Arg Gly Lys Arg Lys Asp Asp Val Arg Ala Ser Asp Asp  
1 5 10 15

Ser Thr His Ala Ala Lys Lys Val Ala Lys Ala Asp Asp Ser Asp Ser  
20 25 30

Asp Asp Val Val Cys Asn Ser Lys Asn Arg Arg Val Ser Val Arg Asn  
35 40 45

Trp Asn Gly Lys Trp Asp Arg Tyr Val Lys Asp Gly Lys Thr Gly Lys  
50 55 60

Lys Gly Ser Ser Val Asp Trp Asn Thr Arg Asn His Ala Asp Lys Ala  
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Ser Asp Ser

<210> 20

<211> 165

<212> PRT

<213> Arabidopsis thaliana putative transcriptional coactivator

<400> 20

Met Glu Lys Glu Thr Lys Glu Lys Ile Glu Lys Thr Val Ile Glu Ile  
1 5 10 15

Leu Ser Glu Ser Asp Met Lys Glu Ile Thr Glu Phe Lys Val Arg Lys  
20 25 30

Leu Ala Ser Glu Lys Leu Ala Ile Asp Leu Ser Glu Lys Ser His Lys  
35 40 45

Ala Phe Val Arg Ser Val Val Glu Lys Phe Leu Asp Glu Glu Arg Ala  
50 55 60

Arg Glu Tyr Glu Asn Ser Gln Val Asn Lys Glu Glu Glu Asp Gly Asp  
65 70 75 80

Lys Asp Cys Gly Lys Gly Asn Lys Glu Phe Asp Asp Asp Gly Asp Leu  
85 90 95

Ile Ile Cys Arg Leu Ser Asp Lys Arg Arg Val Thr Ile Gln Glu Phe  
100 105 110

Lys Gly Lys Ser Leu Val Ser Ile Arg Glu Tyr Tyr Lys Lys Asp Gly

115

120

125

Lys Glu Leu Pro Thr Ser Lys Gly Ile Ser Leu Thr Asp Glu Gln Trp  
130 135 140

Ser Thr Phe Lys Lys Asn Met Pro Ala Ile Glu Asn Ala Val Lys Lys  
145 150 155 160

Met Glu Ser Arg Val  
165